



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Brian R. ROBINSON)	Docket No.:	10015516-1
Serial No.:	10/023,590)	Examiner:	Lesniewski, Victor D.
Filing Date:	December 18, 2001)	Art Unit:	2152
Entitled:	Asynchronous Message Delivery))		
	System and Method)		

DECLARATION OF PEGGY T. OYAMA
UNDER 37 C.F.R. SECTION 1.131

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I am a Legal Administrator in the Legal-Intellectual Property department of Hewlett-Packard Company. I enclose hereto as Exhibit A a true copy of an invention disclosure form, with dates and portions redacted as noted, which was received from the inventor of the above-referenced patent application, Brian R. Robinson, on a date prior to July 12, 2001, in the ordinary course of business as part of Hewlett-Packard Company's invention disclosure program. In accordance with Hewlett-Packard Company's invention disclosure program at that time, upon receipt of an invention disclosure document from an inventor, the invention disclosure document is dated with the date of receipt by the Legal Intellectual Property department of Hewlett-Packard Company and assigned a docket number.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

I hereby certify that, on the date shown below, this correspondence is being:

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Box 1450, Alexandria, VA 22313-1450.

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transmitted by facsimile to the Patent and Trademark Office.

Date:

10/19/05

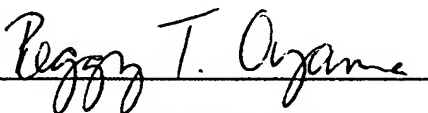
Signature

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

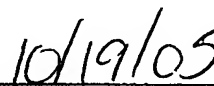
SIGNATURE

Peggy T. Oyama

Signature



Date:



Citizenship:

United States of America

Residence:

Fort Collins, Colorado

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INVENTION DISCLOSURE

PDNO

10015516

DATE RCVD Redacted

PAGE ONE OF

ATTORNEY

ASN

Instructions: The information contained in this document is **COMPANY CONFIDENTIAL** and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

Descriptive Title of Invention:

JMS Tag

Name of Project:

Product Name or Number:

HP Bluestone Total-e-Server 7.3

Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s):

Redacted

Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):

Yes. Total-e-Server 7.3 shipped on or around Redacted

Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s):

Redacted

If any of the above situations will occur within 3 months, call your IP attorney or the Legal Department now at 1-898-4919 or 970-898-4919.

Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.)

Redacted

Was the invention built or tested? If so, the date:

Redacted

Was this invention made under a government contract? If so, the agency and contract number:

Redacted

Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

- A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)
- B. Advantages of the invention over what has been done before.
- C. Problems solved by the invention.
- D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [Redacted]

Redacted

Brian R. Robinson

Brian R. Robinson

HP Bluestone

Employee No.

Name

Signature

Telnet

Mailstop

Entity & Lab Name

Employee No.

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Signature

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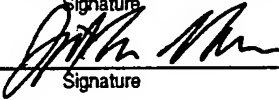
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Entity & Lab Name

(If more than four inventors, include additional information on another copy of this form and attach to this document)

Redacted

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INVENTION DISCLOSURE		COMPANY CONFIDENTIAL	PAGE ____ OF ____
Signature of Witness(es): <i>(Please try to obtain the signature of the person(s) to whom invention was first disclosed.)</i>			
The invention was first explained to, and understood by, me (us) on this date: [Redacted]	
Full Name	Signature	Date of Signature	
Jonathan Maron		Redacted	
Full Name	Signature	Date of Signature	

Inventor & Home Address Information: *(If more than four inventors, include addl. information on a copy of this form & attach to this document)*

Inventor's Full Name			
Brian R. Robinson			
Street			
Redacted			
City		State	Zip
Redacted			
Do you have a Residential P.O. Address? P.O. BOX	City	State	Zip
Greeted as <i>(nickname, middle name, etc.)</i>	Citizenship		Redacted
Brian			

Inventor's Full Name			
Street			
City		State	Zip
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Inventor's Full Name			
Street			
City		State	Zip
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Description of Invention: *Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).*

A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)

B. Advantages of the invention over what has been done before.

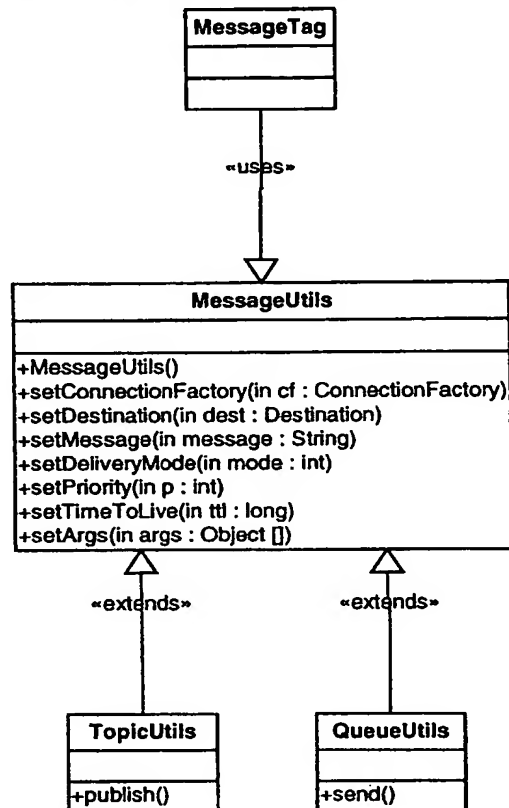
C. Problems solved by the invention.

D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

Description of Invention

A.

The JMS tag handler class (MessageTag) uses an instance of a MessageUtils object. A MessageUtils object can either be a TopicUtils object, QueueUtils object, or some other extension of MessageUtils. The tag handler class creates and uses the appropriate MessageUtils extension to send a JMS message based on which combination of attributes are specified on the tag. The UML diagram below describes the architecture.



In a JSP page, the tag can be used with several different combinations of attributes. Below is a diagram of the use cases, showing which combinations of attributes can be specified for success and failure cases.

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Success Cases - Attributes specified

topic, connectionFactory, args

topic, connectionFactory

topic, connectionFactory (JNDI)

topic, connectionFactory, args, deliveryMode, priority, timeToLive

topic, connectionFactory (JNDI), deliveryMode, priority, timeToLive

topic, connectionFactory, deliveryMode, priority, timeToLive

queue, connectionFactory, args

queue, connectionFactory, args, deliveryMode, priority, timeToLive

queue, connectionFactory

queue, connectionFactory (JNDI)

queue, connectionFactory, deliveryMode, priority, timeToLive

queue, connectionFactory (JNDI), deliveryMode, priority, timeToLive

Failure Cases - Attributes specified

connectionFactory, topic, deliveryMode

connectionFactory, queue, priority

connectionFactory

priority < 0 or > 9

timeToLive < 0

deliveryMode != PERSISTENT and also != NON_PERSISTENT

failure cases below are checked for automatically by the JSP engine based on information in the TLD.

connectionFactory unspecified

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B.R.

In a JSP, the ~~second~~^{third} success case would look like this:

```
<%@ taglib uri="/WEB-INF/bsw.tld" prefix="hp" %>
```

```
<hp:jmsMessage topicConnectionFactory="java:comp/env/jms/topicConnectionFactory"
topic="sampleTopic" >
```

This is the message (or JMS Message payload) being sent.

```
</hp:jmsMessage>
```

B.

Never before has anyone combined JMS technology with JSP custom tag technology. With the JSP tag described within, the JSP page author can program messages to be sent when the JSP is executed in the JSP container via the use of a simple JMS tag, rather than having to write java code in a scriptlet in the JSP to accomplish the same task.

C.

The problem of how to send a JMS message from a JSP page without having to write any Java code is solved via this new JMS tag.

D.

The old way of sending a JMS message from a JSP page to a Topic would be to write code like the following:

```
<%
InitialContext ctx = new InitialContext();

TopicConnectionFactory tcf =
(TopicConnectionFactory)ctx.lookup("TopicConnectionFactory");
TopicConnection conn = tcf.createTopicConnection();
TopicSession session = conn.createTopicSession(false,
TopicSession.AUTO_ACKNOWLEDGE);
Topic topic = session.createTopic("/test");

TopicPublisher pub = session.createPublisher( topic );
TextMessage m = session.createTextMessage(someMessage);
pub.publish(m);
conn.close();
%>
```

The disadvantage of this is that the page author must:

1. Know how to program in Java
2. Be familiar with the JMS API
3. Be familiar with the JNDI API

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